DON'T LET YOUR CAR SMOKE TOO MUCH

Better for You to Stop It Before a Policeman Does.

By H. CLIFFORD BROKAW. Sechnical Director West Side Y. M. C. A. Automobile School.

It will not be necessary to tell the iceman to "watch my smoke" these days; the chances are he is watching the smoke with designs on your pocke book if the exhaust is a bit too blue or black and will be calling out you: "Hey! Turn off that smoke!" Now that attention is being paid

afresh by the police to smoking CATA It is happening every day that some drivers are caught in the meshes of the law when they are not at fault. True, the let up of vigilance has made careless drivers more careless and they ought to be fined. But there are some cases where it is difficult to control the issuance of smoke and it is a shame to see a driver picked up under such circumstances and held equally guilty

with the careless man.

Much of the smoke which we se

bustion chamber to burn and cause carbon deposit and smoke. The remedy
is to have the cylinders rebored or
ground and new pistons fitted; or it
may be possible to correct the trouble
with special piston rings which take
up the wear and keep the excess of oil
from the cylinders; for gummed rings
cleaning alone is necessary.

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when driving at low throttle opening.

Most of the trouble with oil comes when driving at low throttle opening. When touring there is likely to be very little smoke, as the engine is run with fairly wide throttle most of the time. When this same car enters the city, where there must be much throttling down, there may be trouble with smoke The reason is that with a closed throttle the gas drawn in does not fill the vacuum in the combustion chamber and this draws oil past the pistons. The same thing comes when the engine is running idle at the curb for some time, as the chauffeur puts it, "pumping oil."

The trouble is likely to occur more in cool weather than when it is warm and vaporization is perfect, for the engine is more often kept running so it will not cool too much or freeze. Running idle also causes the carburetor to load up, and dense black smoke is the result when the engine is started.

Smoke caused by excess of gasolene may be distinguished by its being black, while that from excess oil is blue, and there is always steam issuing from the exhaust and as soon as it strikes cool air it is white. One of the products of combustion in the cylinders is water, which is vaporized and passes out with the exhaust, becoming steam.

As I said, I do not believe that every

New York City, where they will manufacture only cord tirea, the same being an invention of Fred W. Smith of Rutherford, N. J.

The company expects to sell a cord tire to the auto owner for the price for which they paid for fabric tirea.

The directors are: Mayor John H. Mo-Guire of Passalc, N. J.; Winfield Clear-water, president of Secaucus National Bank, Secaucus, N. J.; Thomas A. Hopking, of Passalc, N. J.; Dudley Gordon, of Passalc, N. J., and Fred W. Smith, of Rutherford, N. J.

As I said, I do not believe that every driver whose car smokes should be hauled and up and fined; at the same time the man who habitually does permit it should be taught a lesson, and if fined often enough to decide to remedy the cause it would be profitable for him, since to make the smoke he is burning very expensive oil.

burning very expensive oil.

The chief objection to smoking cars is that it is disagreeable to others and is unhealthy. That being the case, the cops should give heed to the great numher of cars which do not smoke so that the eye detects it, but do give off excessive quantities of offensive fumes, invisible but more disagreeable and deadly. One of the products of combustion is carbon monoxide, which is deadly, and there are other gases which are particularly objectionable, as every one knows who has walked the city streets. It is easy to detect the car which is extra offensive, for not all give off great volumes of fumes which choke and tickle the throat and make one think harsh things if not actually say them. Not all but much of these excess fumes might be prevented by a proper adjustment of the carbureter and proper instruction in driving.

the carbureter and proper instruction in driving.

Now it is not to be expected that the cop will know all the ins and outs of auto smoke and be able to distinguish at a glance the driver who is a wilful offender and the one who is temporarily in trouble, for the fact is he cannot "turn off the smoke" at will. It takes several blocks before the trouble is obviated. The policeman might give a card viated. The policeman might give a card to be taken up several blocks away, how-ever, to give the driver a chance to show whether he is at fault.

whether he is at fault.

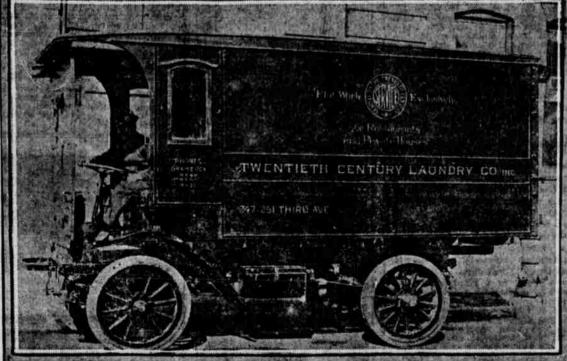
It might be suggested also, since there are some offenders and the cops are expected to pick them up, that the police ought to go to school to an expert in gasolene combustion to learn the ways of smoking cars and how to know the chronic offender from the one who is merely the victim of cold weather and an engine that pumps oil.

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with the careless man.

Much of the smoke which we see comes from too much lubricating oil being supplied to the engine. This may come from having the reservoir to foll, that is with oil above the lavel indicated by the manufacturer. The remedy would be to draw off the surplus But the fault may be in the construction, with too much oil fed to the engine even when the reservoir level is normal. This means lowering the level by altering the splash trough, or narrowing the dippers so there will be less splash.

In some cases it may be found that the piston rings may be gummed with carbon deposit mixed with oil, or they may have lost their original spring. All these things will permit a large smount of oil to work up into the common that while the horse was able to deposit and smoke. The remedy is to have the cylinders rebored or ground and new pistons fitted; or it may be possible to correct the trouble with special piston rings which take up the was needed to five motor trucks, and the piston rings which take up the waste of the remedy in the piston rings which take up the waste of the remedy is to have the cylinders rebored or ground and new pistons fitted; or it may be possible to correct the trouble with special piston rings which take up the waste of the first will permit a large smount of oil to work up into the combustion chamber to burn and cause carbon deposit and smoke. The remedy is to have the cylinders rebored or ground and new pistons fitted; or it may be possible to correct the trouble with special piston rings which take up the waste of the reservoir of the trucks to accomplish more work in the circles to accomplish more work in the trucks to accomplish more work in the truck of successary.

Most of the trucks to accomplish more work in the circles to accomplish more work in the trucks to accomplish more work in the circles to accomplish more wo

NEW TIRE CO. IN JERSEY.

Will Make Cord Tires at Garfield,

The Smith Rubber and Tire Company

nc., of Passaic, N. J., have broken

cated in Garfield, N. J., ten miles from New York City, where they will manu-

The Capitel Auto Exchange has re-cently opened at 1657 Broadway, under the direction and management of A. D. Bogel Mr. Bogel has been connected with the selling of used cars of the better grade for the last four years.

Opens Atlantic City Place.

on account of the growing popularity of Atlantic City as one of the most famous famous Schebier carbunaters of the famous famous resorts in the country, the Pennsylation Cup Tires and "Ton Tested" the star Cup Tires and "Ton Tested" the famous for the famous resorts in the country, the Pennsylation Cup Tires and "Ton Tested" the star Cup Tires and "Ton Tested" the famous for the school of the famous for the famous resorts in the country, the Pennsylation on the Garden Pier. They have leased for rooms on the northeastern end of the famous for the substitution of visitors from all parts of the country. The rooms are being repainted and hand with writing and rest rooms for the accommodation of those who are interested in the display. January 1 will be the probable opening date and C. B. William and the famous resorts in the country, the Pennsylation of the countr

Notes of the Row.

a branch at 122 West Sixty-first street. New York, right off Automobile Row, where they will have all makes of wheels

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NASH CO. SHOWS AMAZING GROWTH

Enlarge Kenosha Plant and Build New Factory in Milwankee.

The announcement coming out of Kenosha that the Nash Motors Company, which has been in business only three years has outgrown the facilities of its present large factory and has been forced to build another factory in Milwaukee for the manufacture of a new Nash four cylinder car is one of the nost interesting since the early days of the industry when phenomenal growth was the rule rather than the exception.

The Nash growth is all the more re-markable when it is remembered that during practically two of these years

during practically two of these years the country was at war and business conditions abnormal.

The present Kenosha factory, one of the largest and best equipped in the industry, in the second year under the Nash regime did a volume of upwards of \$47.000.000 worth of business. Its output for the current fiscal year is 40.000 passenger cars and 5.000 trucks. Yet this manufacturing capacity is entirely inadequate to keep pace with the increasing demand for Nash products.

Speculation as to the details of the new four cylinder car is evidently widespread judging from the volume of inquiries from all parts of the country now being received at the Kenosha factory. Interest in this new car is apparently just as great as was that pre-

parently just as great as was that pre ceding the appearance on the market of the present Nash Six. From the tone of the letters and in-

quiries coming into the Nash factory it is evident that the unusual success of the Nash Six in the hands of the public during the last three years has caused it to be taken for granted that the new Nash Four will be a real leader in its class, and that it will be in every way

up to high Nash standards.

Particular interest is being shown in the type of motor which will form the power plant for this new car.

Forty acres of ground have been purchased in Milwaukoe and contractors are

already at work erecting a factory there for the exclusive manufacture of the four cylinder car. It is expected that this Nash plant will be finished well within a year and that the new car will duction some time before Sep-

r 1, 1920. new Milwaukee factory will com-The new Milwaukee factory will comprise a power plant, foundry, machine shop, drop forge department, body building plant and sheet metal plant. When finished it will be equipped to build Mash Fours in as large a volume as Nash Sixes are now being built in the Kenosha factory. The cost of the Miwaukee plant will run into the millions and it will ultimately be as great a manufacturing institution as the present factory at Kenosha. New Maxwell Truck Here.



This is the new type Maxwell one and a haif ton worm drive truck, which is commanding considerable attention in New York.

The truck is substantially constructed throughout in every detail and comes the content of th



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The expressmen strike, longshoremen strike, and several others would practically have paralyzed this show and precluded its opening had not the exhibitors made use of the motor truck in the smarrage. n the emergency.

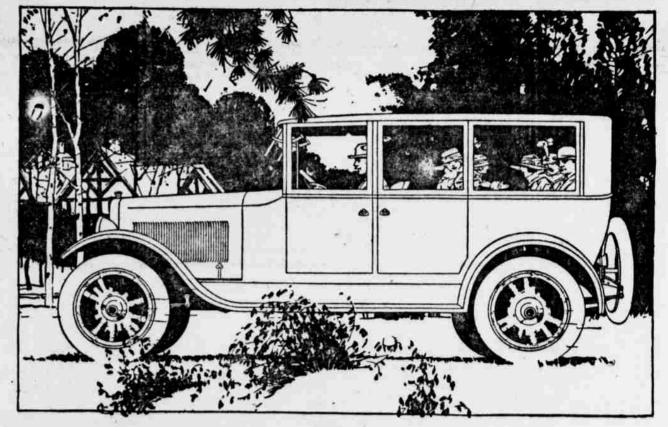
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